

Date: Sat, 13 Feb 93 04:30:12 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #204
To: Info-Hams

Info-Hams Digest Sat, 13 Feb 93 Volume 93 : Issue 204

Today's Topics:

 "Laundered" Ticket Story & FCC question
 WARNING Cancer may cause ham radio!
 80-100 MHz Oscillator
 Beware the Jabbawock and VEC (2 msgs)
 Circuit analysis programs
Daily Solar Geophysical Data Broadcast for 12 February
 Home building PT0s
 kenwood 940
kits - subject to type acceptance, or not?
 Morse Code Food for Thought
 QSL Routes Wanted
 TH-3 antenna problems
 Trouble with Kenwood 215A
 WARNING: Bogus Mods for HTX202!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 11 Feb 93 23:35:54 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
spool.mu.edu!hri.com!noc.near.net!transfer.stratus.com!sw.stratus.com!
fms@network.UCSD.EDU
Subject: "Laundered" Ticket Story & FCC question
To: info-hams@ucsd.edu

In article <ljh1.729466109@crux1.cit.cornell.edu>, ljh1@crux2.cit.cornell.edu
(Leif

J. Harcke) writes:

> [tale of woe about washing the print off his new Extra license deleted...]

>

> Lesson learned: laminate your new ticket before putting it into your

> wallet. It will save you a lot of headaches. I imagine that body

> heat over the period of a couple months is sufficient to cause the

> laser-typesetting to transfer as well.

>

Another suggestion: Make a photocopy of your new license; put the original in a safe place (mine's kept in a filing cabinet), then cut out, laminate and carry the copy. It's perfectly legal, and it saves worries about losing the original to the washing machine (things like fire, flood, etc. may still cause problems, but hopefully your house floods less often than you do laundry... :-)

73 de Faith N1JIT

p.s. Sorry, Leif, I don't remember offhand what the policy is on getting a license replacement; hopefully somebody else out there will have the answer for you!

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| | |
|------------------------|-----------------------------------|
| Faith M. Senie | InterNet: fms@vos.stratus.com |
| Stratus Computer, Inc. | InterNet: fms@hoop.sw.stratus.com |
| 55 Fairbanks Blvd. | Pkt Radio: n1jit@ka1srd.ma.usa.na |
| Marlboro, MA 01752 | Phone: (508)460-2632 |

"I'm afraid I don't know very much about Romulan Disruptor settings" --Spock

Date: 13 Feb 93 03:59:28 GMT

From: ogicse!uwm.edu!zaphod.mps.ohio-state.edu!rpi!isaac.its.rpi.edu!

abelson@network.UCSD.EDU

Subject: **WARNING** Cancer may cause ham radio!

To: info-hams@ucsd.edu

|> greg_chartrand@qmail.ssc.gov (Greg Chartrand) writes:

|>

|>

|> >CROSS-POST FROM SCIENCE.MEDICAL.DISEASES

|> >-----

|> >In the January 1993 issue of the "Maryland Medical Journal", Dr. William

|> >B. Toat claimed that his recent study indicated a significant percentage

|> >of persons who are genetically prone to develop cancer have chosen amateur

|> >radio as a hobby.

|> [stuff deleted]

|> >Last month, Dr. Toat received a \$2,000,000 grant from the National
|> >Institute of Health to continue his studies on potential disease induced
|> >hobbies.

Now wait a second. It seems to me that the first paragraph is in direct contrast to the second!

The first says that persons who are 'genetically prone to develop cancer' have chosen ham radio. This (at least the way it is written) says that a genetic predisposition to the development of cancer CAUSES one to choose ham radio as a hobby. Yikes!

The second part refers to a grant so that Toat can study the disease-inducing effects of certain hobbies.

I don't understand, You can't have it both ways, which one is it?

Another question I have is in regard to genetic predisposition. If you are genetically predisposed to getting cancer, what the heck difference does it make what hobby you choose. I always thought that the term "genetically prone" meant you were born with it, independent of environmental cause (i.e., you don't develop a genetic predisposition "later on").

Sorry, but I'm confused.

mla
--

```
.....
Mike Abelson          | Adoption is all about looking *beyond*
Information Technology Services | genetics. Human bonding is what's
RPI Troy, NY 12180-3590 | important, not who's genes are involved.
abelson@rpi.edu        | --J.W. Jeffries
.....
```

Date: 12 Feb 93 23:03:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: 80-100 MHz Oscillator
To: info-hams@ucsd.edu

The unconditionally stable MMIC amplifiers can easily be made to oscillate. Just provide a feedback path with 180 degrees of phase shift. The amplifiers have 180 degrees of phase shift built into them. (Up to about 1 GHz.) RF Design Magazine had a nice article on this a couple of years ago (sorry the exact reference escapes me). For a 50 ohm load, they had another amp pick the oscillator signal off a 6 dB pad. Be very careful with the power decoupling as two amplifiers provide a 360 degree feedback path :-(.

73, Erich KA6AMD @ WA6YBN.#SOCA.CA.USA.NA
Internet: muschinske%39a.decnet@scfb.chinalake.navy.mil

Date: Thu, 11 Feb 1993 23:22:14 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
sol.ctr.columbia.edu!The-Star.honeywell.com!umn.edu!csus.edu!netcom.com!
mont@network.UCSD.EDU
Subject: Beware the Jabbawock and VEC
To: info-hams@ucsd.edu

In article <9302101610.AA08115@ucsd.edu>
William=E.=Newkirk%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM writes:

.....
>so if you hold a novice and upgrade to tech in january, pass general in
>february, advanced in march, and extra in april, you'd send in a copy of the
>tech license in march, the general license in may, the advanced in july, and
>the extra would arrive about september (assuming about 8 weeks to turn the
>application.) of course you would have been operating as an extra since
>april. i couldn't say if there was a way for the VEC to gather up the
^^
>pendings and submit the whole thing at the time your general license comes
^^^^^^^^^^
>in.
>
>73, bill wb9ivr

I know they can, if you take all the tests from the same VEC.

I actually went through this. I passed novice exams on first visit,
which got the first 610 in the mail to FCC. Then 2 weeks later passed
Tech an General exams, VEC put 610 on file. And in another 2 weeks
passed Advanced exams. VEC combined credits from previous 610 in their
files to the new 610, tossed the old one on file, and kept the new one
until I mailed copy of Novice ticket to them.

A month later I went back and passed the Extra written test and got an
CSCE from the VEC. Now just gotta get that 20wpm code done before the
CSCE expires.

73,
--
Mont Pierce

+-----+
| Ham Call: KM6WT Internet: mont@netcom.com |

| | | | |
|--|-------------------|-------------------------------|------|
| | bands: 80/40/20/2 | IBM vnet: mont@vnet.ibm.com | |
| | modes: cw,ssb,fm | | |
| | qth: Fremont, CA | Religion: Jehovah's Witnesses | 9/72 |

+-----+

Date: Thu, 11 Feb 1993 18:24:15 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!hp-cv!hp-pcd!
hplsla!charlier@network.UCSD.EDU
Subject: Beware the Jabbawock and VEC
To: info-hams@ucsd.edu

/ hplsla:rec.radio.amateur.misc / vbreault@rinhp750.gmr.com (Val Breault) /
11:51 am Feb 9, 1993 /

In article <1993Feb9.175622.12425@ttinews.tti.com> paulb@harley.tti.com (Paul
Blumstein -- KD6LAA) writes:

It is 10 O'Clock -- Do You Know Where Your License Is?

(Paul write about being unaware of the need to send in a copy of
his general, in order to have his advanced processed)

Val replys:

I imagine not.... The VE teams that I've encountered have mentioned it
to the applicants. Your team must have forgotten to tell you or perhaps
they did but you misunderstood and sent in the Technician license.

I say:

In fact, in my ARRL VE Manual, on p 75 there is a letter, which one
is supposed to photocopy and present to the applicant with a pending
license, which states in part:

"Your Form 610 application for the upgrade you earnded at today's session
will be forwarded to us at the ARRL/VEC office and held without further action
until a copy of your license being upgraded is attached to it (FCC
requirement). When your pending license arrives, make a photocopy of the
signed license and send or fax the copy to:" (ARRL VEC office address)

If I read the bottom of the letter correctly, the ARRL VEC also sends
out a reminder postcard to those whose applications they are holding.
I trust it wasn't the ARRL VEC that was handling your application.

So they should have informed you of this at the exam. Please try not

to be too hard on them though. These folks are only human, and, only volunteers! As one who does VE sessions on a rather infrequent basis, I know that there are a lot of little details to tend to, and it's easy to forget something.

Charlie Panek KX7L Hewlett Packard Company
charlier@lsid.hp.com Lake Stevens Instrument Division
 Everett, Washington

Date: 12 Feb 93 23:22:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Circuit analysis programs
To: info-hams@ucsd.edu

Sorry this took so long to post, but I just got back to the mail.
I have a couple of programs available. One is a two port cascade program that was originally published in RF Design and intended for RF analysis. The other is a nodal analysis program I wrote to do some op amp filter design. They are both written for the IBM. The best thing about them is that they are available for the price of an e-mail message to me!

Erich KA6AMD @ WA6YBN.#SOCA.CA.USA.NA
Internet: muschinske%39a.decnet@scfb.chinalake.navy.mil[1K 73,

Date: 13 Feb 93 08:24:35 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 12 February
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 043, 02/12/93
10.7 FLUX=148.6 90-AVG=139 SSN=131 BKI=4323 2212 BAI=011
BGND-XRAY=B6.3 FLU1=9.5E+05 FLU10=1.2E+04 PKI=3323 2222 PAI=009
BOU-DEV=042,028,018,033,016,015,006,010 DEV-AVG=021 NT SWF=00:000
XRAY-MAX= C5.9 @ 0044UT XRAY-MIN= B5.1 @ 1919UT XRAY-AVG= C1.1
NEUTN-MAX= +002% @ 1950UT NEUTN-MIN= -002% @ 2240UT NEUTN-AVG= +0.1%
PCA-MAX= +0.1DB @ 2355UT PCA-MIN= -0.3DB @ 1825UT PCA-AVG= +0.0DB
BOUTF-MAX=55414NT @ 0337UT BOUTF-MIN=55393NT @ 2019UT BOUTF-AVG=55406NT
GOES7-MAX=P:+112NT@ 2130UT GOES7-MIN=N:+002NT@ 1052UT G7-AVG=+079,+031,+010

GOES6-MAX=P:+123NT@ 1917UT GOES6-MIN=E:-005NT@ 2047UT G6-AVG=+090,+005,+042
FLUXFCST=STD:140,130,120;SESC:140,130,120 BAI/PAI-FCST=010,010,010/015,010,010
KFCST=2234 3332 2234 3322 27DAY-AP=006,009 27DAY-KP=2211 2322 2333 2211
WARNINGS=*MAJFLR;*SWF;*PROTON;*PCA
ALERTS=
!!END-DATA!!

Date: 11 Feb 93 18:24:49 CST
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!zaphod.mps.ohio-
state.edu!menudo.uh.edu!ccsvax.sfasu.edu!f_speerjr@network.UCSD.EDU
Subject: Home building PT0s
To: info-hams@ucsd.edu

In article <14570636@hpnmdla.sr.hp.com>, alanb@hpnmdla.sr.hp.com (Alan Bloom)
writes:
> In rec.radio.amateur.misc, chuck@eng.umd.edu (Chuck Harris - WA3UQV) writes:
>
>>Probably the simplest scheme for a linear PT0 is to use some kind of screw
>>driven platform to move your core, and then wind the coil with a non-linear
>>spacing between the turns.
>
>>If you want your PT0 to cover a large frequency range (1MHz +) You will
>>probably need to come up with some fancy nonlinear way of driving the core
>>into the coil, in addition to winding a nonlinear coil.
>
> The famous Collins and Drake PT0s used a non-linear coil winding and
> linear screw mechanism. The Drake covered about a 10% frequency range
> (5-5.5 MHz). Some of the Collins units covered a 2:1 range. (I have
> one in the junkbox that goes 1.5-3 MHz.)
>
> AL N1AL

An interesting, and to some of us, nostalgic, history of the design of the
Collins 75A receiver, which first used a linear PT0, appears in last
September's issue of *Electric Radio.* The article includes a nice biographical
sketch of the PT0's designer, Roy Olson, who held several of the original
patents.

73!

James R. Speer
Department of Psychology
Stephen F. Austin State University
Nacogdoches TX 75962-3046
Phone: 409 568 1478
Fax: 409 568 2190
E-mail: F_SPEERJR@ccsvax.sfasu.edu
Ham Radio: K5YUT

Date: 8 Feb 93 10:54:00 GMT
From: sdd.hp.com!zaphod.mps.ohio-state.edu!howland.reston.ans.net!wupost!csus.edu!
netcom.com!netcomsv!pcs!bill.nadzam@network.UCSD.EDU
Subject: kenwood 940
To: info-hams@ucsd.edu

JGI was at a ham fest this weekend and saw a really nice
JG940 with auto tune and all the filters.. looked new
JGfor about \$1300. I have been looking at some HF rigs
JGfor possible purchase. The ones that I have been considering
JGare the 850 and the Ten Tec Omni Vi or Corsair II.
JG
JGDoes anyone have experience with the 940.. how is the receiver?
JGHow is it as a contest rig. I work mainly CW and then RTTY
JG and AMTOR.. also ocassional DX SSB.

I have a TS-940S/AT and it is a very good rig. I still feel that it
is one of the best buys out there now. There is a weakness in it though.
I should tell you however that this same weakness is in almost every
other rig on the market as well. That is that most manufacturers tend
to build rigs with profit margins in mind. Kenwoods then top of the line
TS-940 was no exception. Although a very fine piece of hardware the
passband filtering is good but not great. If you are looking for
a TS-940 or any rig out there look for one that has filter enhancments
installed. Like the Fox/Tango or IRC filters installed that replace the
original equipment filters. Either the 2.1Khz or the 1.8Khz for SSB.
They, "IRC" also sell, 400Hz and 250Hz CW filters. Now you might ask
why buy these and not the Kenwood. There is NO comparison. Apples and
cucumbers. So if your looking for a used rig, look for one with the
IRC filters installed. If your into contesting you won't be sorry.

PS I use the TS-940S/AT mostly on SSB but can be found on CW,
AMTOR, RTTY and PACKET. I use the FSK mode with the PK-232/MBX
for all digital modes. Yes all digital mode. Some feel it shouldn't
work in FSK mode for packet but it works very very very well.

. EZ 1.37 . 73 de Bill K8WN ..._._

Date: Fri, 12 Feb 1993 18:55:18 GMT
From: sbcs.sunysb.edu!rick@nyu.arpa
Subject: kits - subject to type acceptance, or not?
To: info-hams@ucsd.edu

Does anyone know offhand whether kits (amateur radio or otherwise) need to be tested for conformance to FCC emissions standards?

Rick Spanbauer, SUNY/Stony Brook

Date: 12 Feb 93 23:02:02 GMT
From: news-mail-gateway@ucsd.edu
Subject: Morse Code Food for Thought
To: info-hams@ucsd.edu

Here's some food for thought:

The licensing requirements in Montserrat (VP2M) require that, after you get your license, you must log 500 Morse code QSO's before you are allowed to operate phone!

I'm having a hard time imagining the world without Morse code. What does an AMTOR pileup on a Bouvet Is. DXpedition sound like? Is this possible?

Remember, we have separate CW and phone subbands because, among other reasons, phone operators object to the CW heterodynes, not because CW operators are bothered by voice sidebands (generally).

Fifty years from now all modes will be voice (in the developed nations). Speak into you computer (desktop? palmtop? wristtop?) and your voice will instantly be compressed, translated into the mode of your choice (some new digital mode, no doubt), and transmitted in real time. I shudder to think what equipment is on the receiving end. Hopefully, there's also a human there.

Kris, AA5UO '~ ~`
mrz@rockdal.aud.alcatel.com L
 J

Date: 10 Feb 93 19:23:32 GMT
From: olivea!spool.mu.edu!howland.reston.ans.net!zaphod.mps.ohio-state.edu!rpi!
psinntp!psinntp!gdstech!gdstech!bat@ames.arpa
Subject: QSL Routes Wanted
To: info-hams@ucsd.edu

YN1CC is to PO Box 2971, Managua, Nicaragua.
4U1WB is to KK4HD: Paul J. Van Der Eijk, 7524 Dolce Dr., Annandale,
 Va. 22003.
I can't find the other 2.

--

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*-----*
*   Pat Masterson           | KE2LJ@KC2FD           *
*   Grumman Data Systems    | 516-346-6316.        *
*   M/S D12-25              |                      *
*-----*
```

Date: 12 Feb 93 10:17:00 GMT
From: saimiri.primite.wisc.edu!zaphod.mps.ohio-state.edu!wupost!csus.edu!
netcom.com!netcomsv!pcs!bill.nadzam@ames.arpa
Subject: TH-3 antenna problems
To: info-hams@ucsd.edu

JNAnd how does one troubleshoot such a thing?
JN

Well all you need to do is take down the antenna. Remove the
driven element. Check all the hardware for corrosion. If that doesn't
help or show anything, call Mosely for a Return Authorization number
and send them all the traps from the driven element. They used to have
a very good trap rebuilding fee and they will fix you up within a
month. Worked for me on a CL36A I had up. I think 10 years ago it cost
me \$40 plus shipping to have the driven element traps rebuilt.

. EZ 1.37 . 73 de Bill K8WN ..._._

Date: 12 Feb 93 22:46:32 GMT
From: ogicse!uwm.edu!csd4.csd.uwm.edu!dave@network.UCSD.EDU
Subject: Trouble with Kenwood 215A
To: info-hams@ucsd.edu

I've had a Kenwood 215A for about 3 or 4 years. I finally got my license
this fall and have been transmitting with it since then.

Maybe 1.5 years ago the speaker died and I had it replaced at Amateur
Electronics Supply for something around \$100 (grrrr).

As of lately I think my pl is dead since I have can transmit no audio to
the 145.130 repeater but simplex works fine. I don't have the optional
pc decoder installed.

I was wondering if anyone else has had any similar experiences that they
fixed themselves or is this another \$100+ (grrr) job for AES?

Please mail me - it's hard to keep up with this newsgroup... Thanks in advance.
--

Dave Rasmussen - SysAdm/Hacker/Consulting Supervisor, UWM Computing Svcs Div.
Internet:dave@uwm.edu, Uucp:uwm!dave, Bitnet:dave%uwm.edu@INTERBIT
AT&T:414-229-5133 USmail:Box 413 EMS380,Milwaukee,WI 53201 HAM: N9REJ

Date: 11 Feb 93 17:57:37 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
spool.mu.edu!olivea!gossip.pyramid.com!pyramid!infmtx!seashore!
randall@network.UCSD.EDU
Subject: WARNING: Bogus Mods for HTX202!
To: info-hams@ucsd.edu

johnnyb@netcom.com (John A Bryant) writes:

>Beware of bogus modifications for the Realistic HTX202 2M HT. I've even
>seen these modifications published in modification handbooks. You can
>tell that the mods are bogus if they contain directions to remove chip
>resistor R33. If you remove this resistor you will lose the high power
>mode on your radio!

The recent volume (5a) of -Radio/Tech Modifications- by Artsci
does not talk about R33. It does have this mod:

- 1) Remove power and antenna
- 2) Remove screws, open case
- 3) Locate and remove R55 (RX Mod 118-174 MHz)
- 4) Locate R77, R123, and R124
- 5) Add a jumper from R77 to R123-R124 (TX mod)
- 6) Reassemble the radio

I have not tested, do not guarantee, and do not recommend this mod.

73 DE KK6MY

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| | |
|--|------------------------------|
| Randall Rhea | Informix Software, Inc. |
| Project Manager, MIS Sales/Marketing Systems | uunet!pyramid!infmtx!randall |

Date: 11 Feb 93 18:03:57 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
spool.mu.edu!olivea!gossip.pyramid.com!pyramid!infmtx!seashore!

randall@network.UCSD.EDU
To: info-hams@ucsd.edu

References <rrgd50-050293094114@222.5.80.3>, <44596@gremlin.nrtc.northrop.com>,
<1993Feb10.160406.14958@porthos.cc.bellcore.com>ram
Subject : Re: HTX-100

whs70@dancer.cc.bellcore.com (sohl,william h) writes:

>In article <44596@gremlin.nrtc.northrop.com> jmeacham@cam.nad.northrop.com (John
W. Meacham) writes:
>>In article <rrgd50-050293094114@222.5.80.3> rrgd50@email.sps.mot.com (Chris
Terwilliger) writes:
>>>Now that the rat shack has dropped the closeout price on this radio
>>>to \$159, does anybody have any comments on it?? I am mostly interested
>>>in it's usefulness for satellites. I don't know a soul who has one...
>>

This is a great deal for \$159. Its only major problem is that it
does not have AM and FM, only CW and SSB. (The Uniden HR-2600
has AM and FM but no memories, which are quite useful on the HTX-100.)
I would imagine that it is a bit limited in features for a satellite
rig. There are ways to make it work with a transverter.

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| | |
|--|-----------------------------|
| Randall Rhea | Informix Software, Inc. |
| Project Manager, MIS Sales/Marketing Systems | uunet!pyramid!infmt!randall |

End of Info-Hams Digest V93 #204
